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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/840,223	05/07/2004	Hans Trautenberg	P25156	9674

7055 7590 11/17/2004

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RESTON, VA 20191

EXAMINER

NGUYEN, TAN QUANG

ART UNIT	PAPER NUMBER
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3661

DATE MAILED: 11/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/840,223

Applicant(s)

TRAUTENBERG, HANS

Examiner

TAN Q NGUYEN

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 May 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 7-12, 14 and 16-25 is/are rejected.
- 7) ☒ Claim(s) 5, 6, 13 and 15 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 09/03/2004.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAIL ACTION

Notice to Applicant(s)

1. This application has been examined. Claims 1-25 are pending.
2. The prior art filed on September 03, 2004 has been considered.
3. Receipt is acknowledged of papers submitted under 35 U.S.C. § 119, which have been placed of record in the file.
4. In the specification, page 14, line 18, the "DPU" should be "DPU1" since it refers to the first data processing unit. Correction is requested.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-4 and 16-25 are rejected under 35 U.S.C. § 102(b) as being anticipated by Rasanen (WO-9810569).
7. As per claim 1, Rasanen discloses the invention as claimed which includes a process and apparatus for transmitting status message to user terminal of satellite data transmission system (see figure 3 and page 5, lines 21-24) which includes the steps of reserving at least one selected data area in the navigation data blocks (see figure 8), splitting status message into status data blocks that are smaller than the navigation data blocks (see figure 8 and at least page 8, lines 26-31), inserting the status data blocks

into the reserved data areas of the navigation data block (see figure 8 and at least page 9, lines 24-33), and inserting modification message data blocks into the subsequent reserved data areas of the navigation data blocks in place of one or more status data blocks of the status message when the status messages are modified (see at least figure 8 and page 4, lines 12-20).

8. As per claim 2, Rasanen also disclose that the satellite data transmission system transmits the navigation data blocks from navigation satellites to the user terminal (see figure 3).

9. As per claim 3, Rasanen further disclose that the reserving of the at least one data area comprises reserving at least one data area in each navigation block in a regular sequence (see figure 8).

10. As per claim 4, Rasanen also disclose that the at least one reserved data area comprises a plurality of reserved data areas, i.e. terminal interface status information and other control and synchronization information (see figure 8).

11. As per claims 16, 17, 20 and 21, Rasanen disclose that the user terminal includes a receiver unit and inherently having a data processing unit or computer readable medium for receiving and processing navigation data blocks as shown in at least figure 3, items MS, TAF, TE).

12. As per claims 18 and 19, Rasanen further disclose that the user terminal might have a second receiver and inherently having a second a data processing unit or computer readable medium for receiving and processing navigation data blocks of a radio communications system (see figure 3, items PSTN, ISDN and TE).

13. With respect to claims 22-25, the limitations of these claims have been noted in the rejections above as applied to claims 1 and 16. They are therefore considered rejected as set forth above.

Claim Rejections - 35 USC § 103

14. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

15. Claims 7-12 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rasanen as applied to the claims above, and further in view of Benedicto et al. (an article entitled "Galileo: Satellite System Design and Technology Developments").

16. Rasanen discloses the claimed invention as discussed above except that the status messages are composed of integrity messages concerning navigation satellites of a satellite navigation system, and the modification message are provided when a modification of the integrity message occurs. However, Benedicto et al. suggest a communication between the satellite system and the user terminal with the ability to offer the integrity messages required for the provision of service guarantees and for the support of safety-of-life applications (see page 13 and 14). Benedicto et al. further suggested that such integrity messages are incorporated into the navigation data message streams which broadcast to all users, and it will be updated/modified every 6 seconds (see pages 13 and 14). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Benedicto et al. into the system of Rasanen in order to provide the system with the enhanced capability of providing the integrity messages incorporated into the navigation message for the support of safety-of-life applications.

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17. Claims 5-6, 13 and 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

18. None of the prior art of record disclose the status data block in the reserved data areas account for a maximum of 25% of a total data volume or an entire data content of the navigation data block (claims 5 and 6). Also, the limitation of the distress calls and information for distress call devices referred to the status message as recited in claims 13 and 15 is not found in the prior art of record.

Conclusion

19. Claims 1-4, 7-12, 14 and 16-25 are rejected. Claims 5, 6, 13 and 15 are objected.

20. The following references are cited as being of general interest: Kalafus (5,877,725), Rasanen et al. (6,128,322), Ueda et al. (6,297,770), Predue et al. (6,424,285) and Threadgill et al. (2002/0013149).

21. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Tan Q. Nguyen, whose telephone number is (703) 305-9755. The examiner can normally be reached on Monday-Thursday from 5:30 AM-4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black, can be reached on (703) 305-8233.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to the Official Fax Center:

(703) 872-9306, (for informal or draft communications, please label
"PROPOSED" or "DRAFT")

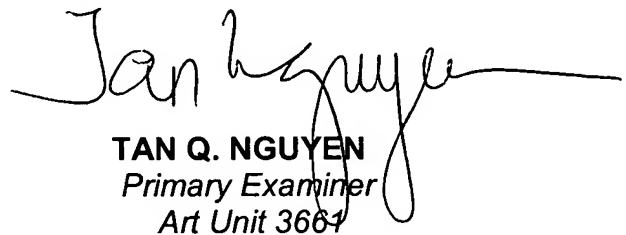
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Hand-delivered responses should be brought to Crystal Park V, 2451
Crystal Drive, Arlington, VA., Seventh Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application should
be directed to the Group receptionist whose telephone number is (703) 308-1113.

Information regarding the status of an application may be obtained from the Patent
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/tqn
November 13, 2004


TAN Q. NGUYEN
Primary Examiner
Art Unit 3661